

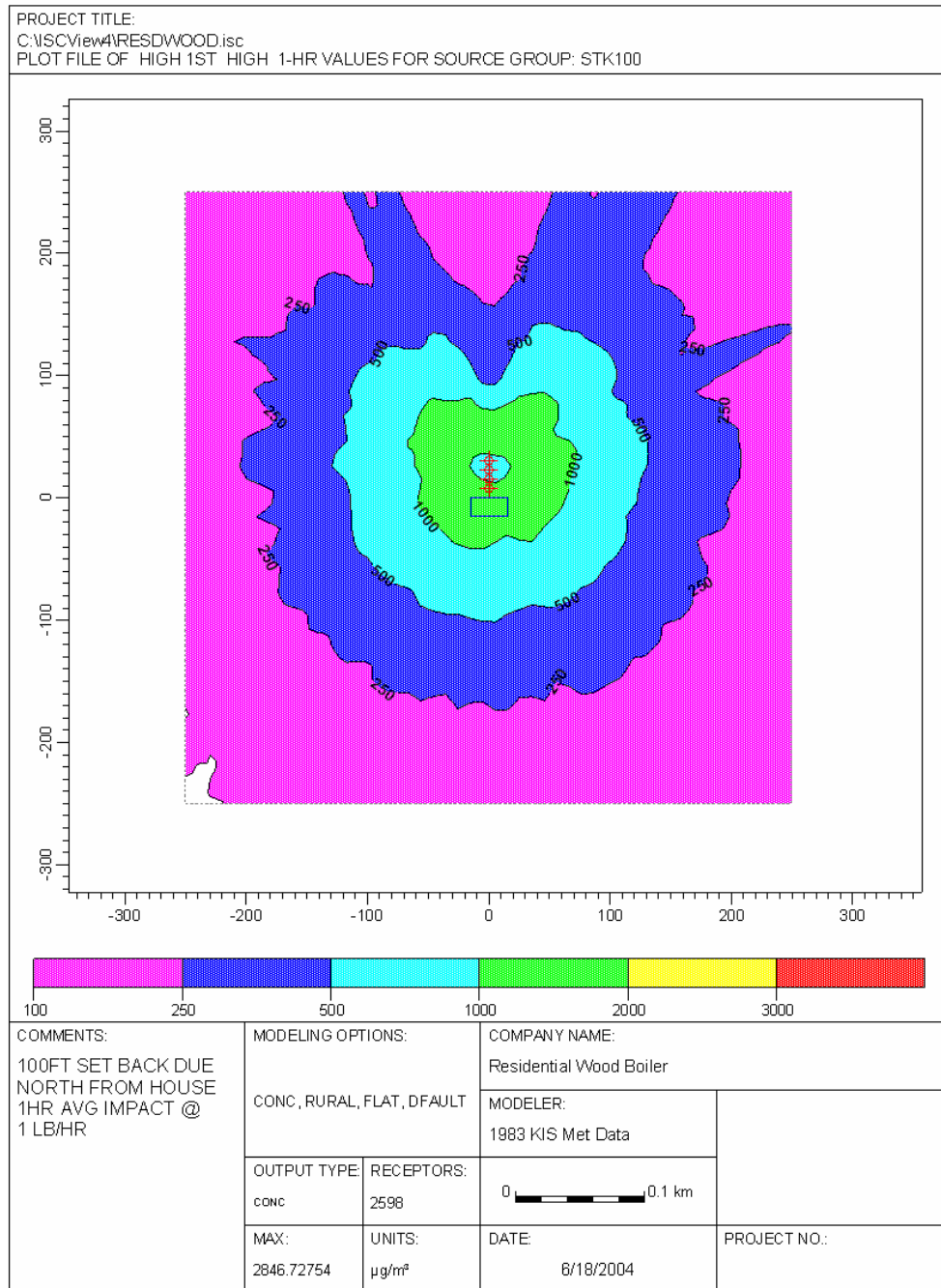
Residential Wood Boiler Study

MAXIMUM PREDICTED 1-HR AVG CONCENTRATIONS

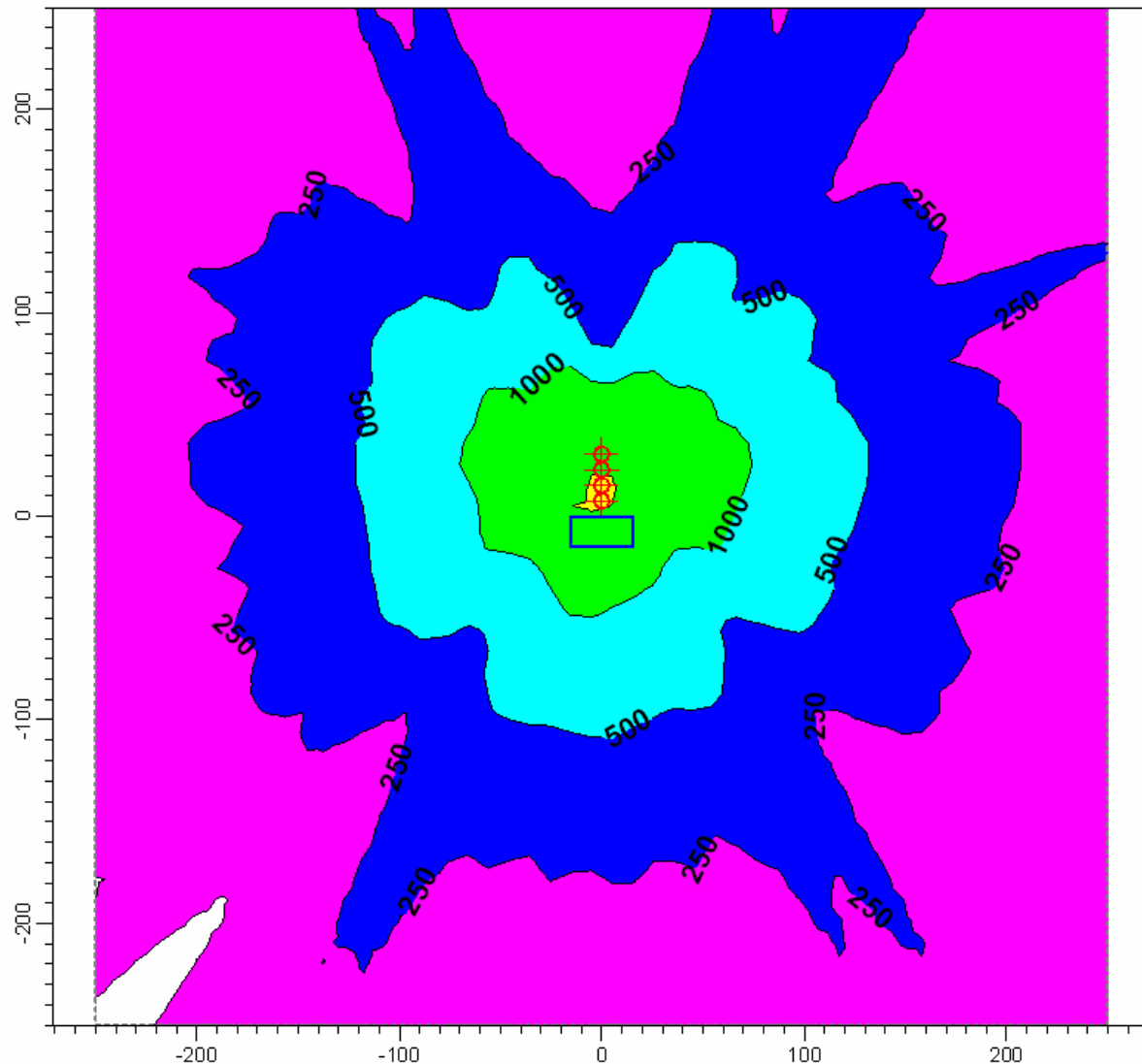
Four contour plots of the max 1-hr concentration at an emission rate of 1lb/hr. Since its 1 stack, the impacts can be scaled (linear relationship) to a different emission rate. Modeling is based on the following:


stack height = 8'
temperature = 250F
vel=1.5 m/s
diameter = 6"
50' x 100' bldg 22' high

Ran 25', 50', 75', and 100' set back distances from the bldg due north using 1983 KIS met data.

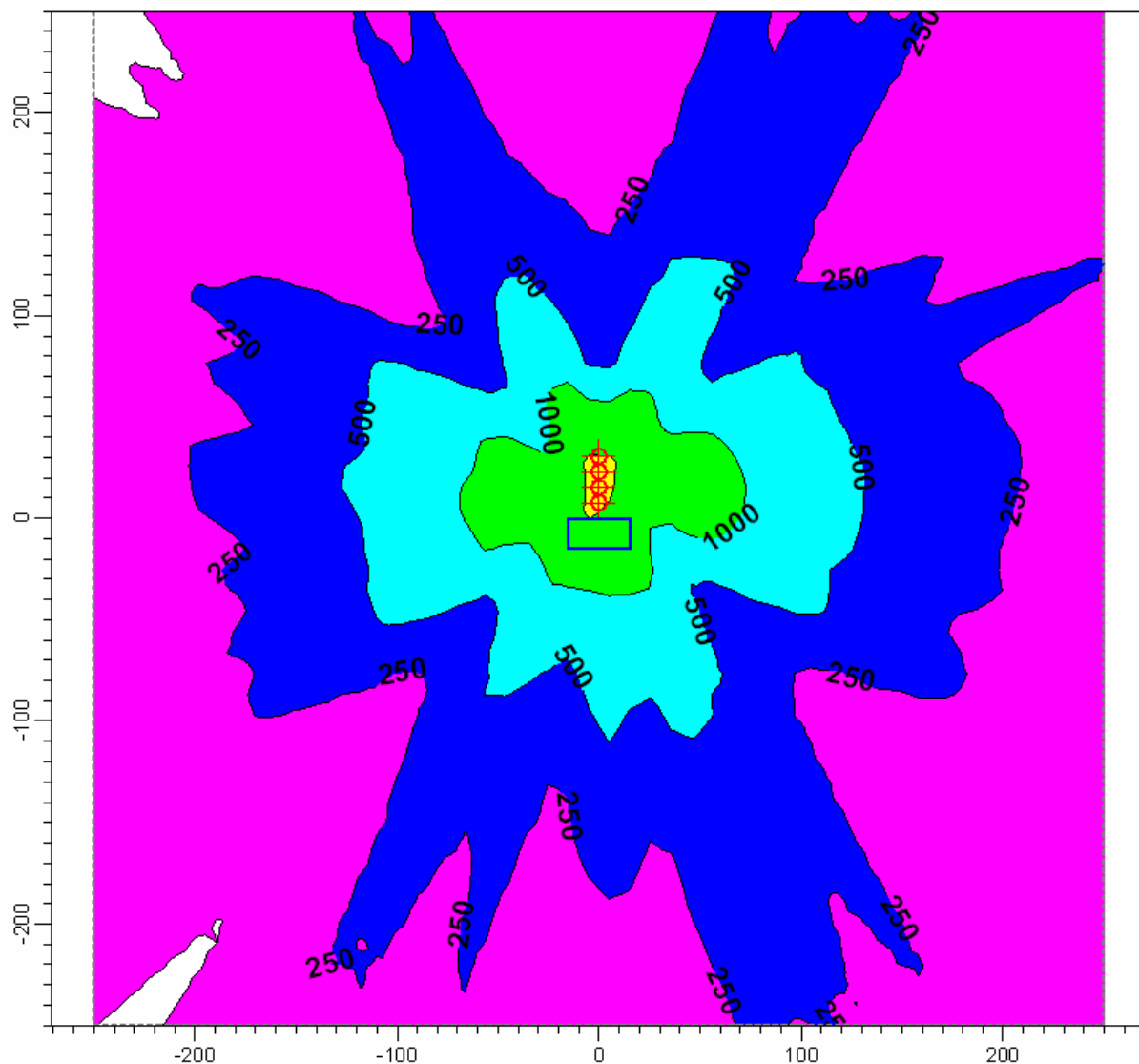



PROJECT TITLE:
 C:\ISCView4\RESWOOD.isc
 PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK75



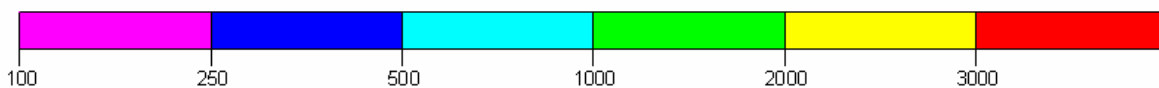
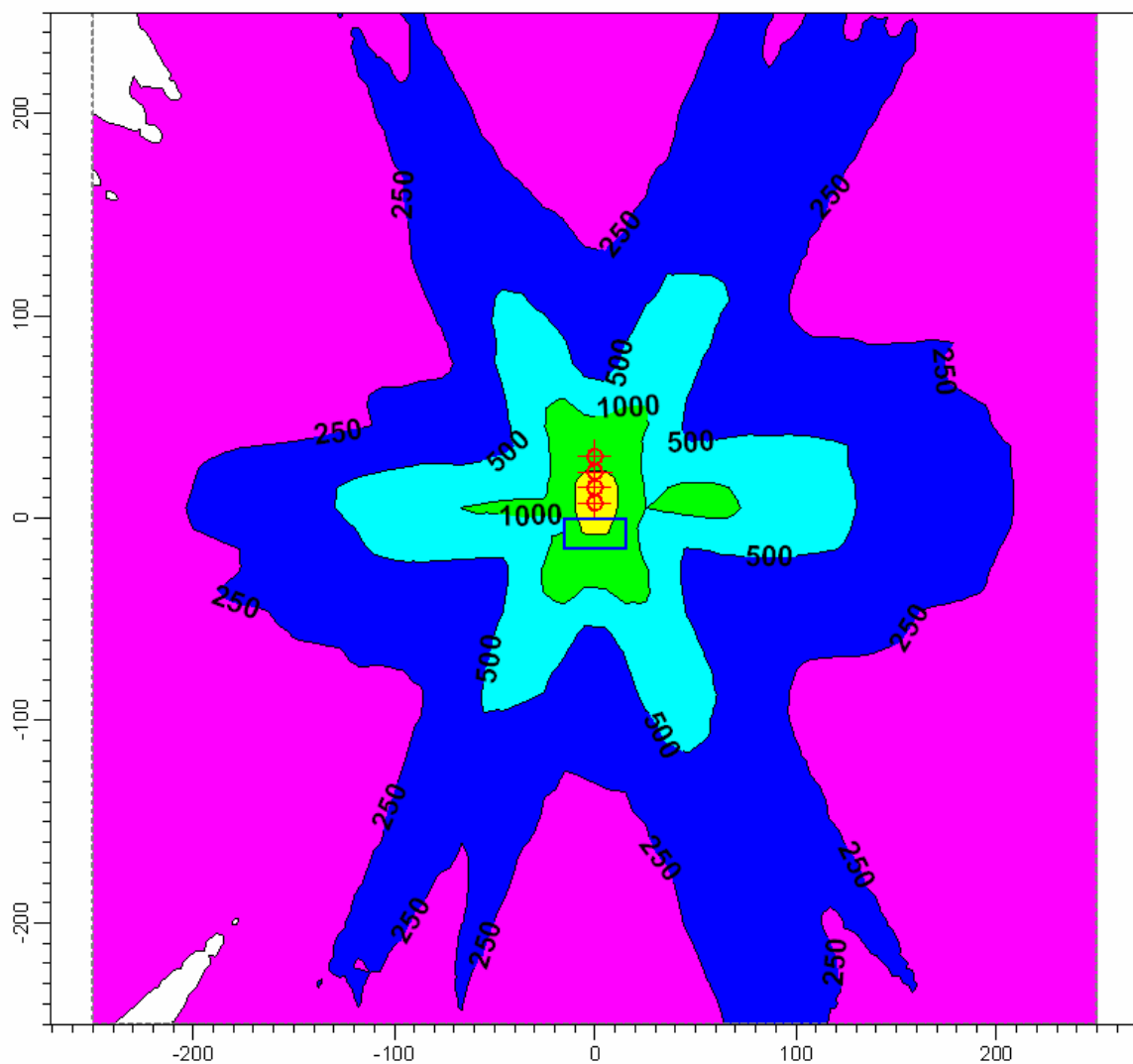
COMMENTS: 75FT SET BACK DUE NORTH FROM HOUSE 1HR AVG IMPACT @ 1 LB/HR	MODELING OPTIONS:		COMPANY NAME:	
	CONC, RURAL, FLAT, DFAULT		Residential Wood Boiler	
	OUTPUT TYPE:	RECEPTORS:	MODELER:	
	CONC	2598	1983 KIS Met Data	
	MAX:	UNITS:	DATE:	PROJECT NO.:
	4361.85889	$\mu\text{g}/\text{m}^3$	6/18/2004	

PROJECT TITLE:
C:\ISCView4\RESWOOD.isc
PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK50



COMMENTS: 50 FT SET BACK DUE NORTH FROM HOUSE 1HR AVG IMPACT @ 1LB/HR	MODELING OPTIONS:		COMPANY NAME:	
	CONC, RURAL, FLAT, DFAULT		Residential Wood Boiler	
	OUTPUT TYPE:	RECEPTORS:	MODELER:	
	CONC	2598	1983 KIS Met Data	
	MAX:	UNITS:	DATE:	PROJECT NO.:
	4306.479	$\mu\text{g}/\text{m}^3$	6/18/2004	

PROJECT TITLE:
 C:\ISCView\4\RESWOOD.isc
 PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: STK25



COMMENTS:

25 FT SET BACK DUE
 NORTH OF HOUSE
 1-HR AVG IMPACT @
 1 LB/HR

MODELING OPTIONS:

CONC, RURAL, FLAT, DFAULT

OUTPUT TYPE:

CONC

MAX:

6761.25586

RECEPTORS:

2598

UNITS:

$\mu\text{g}/\text{m}^3$

COMPANY NAME:

Residential Wood Boiler

MODELER:

1983 KIS Met Data

0 0.05 km

DATE:

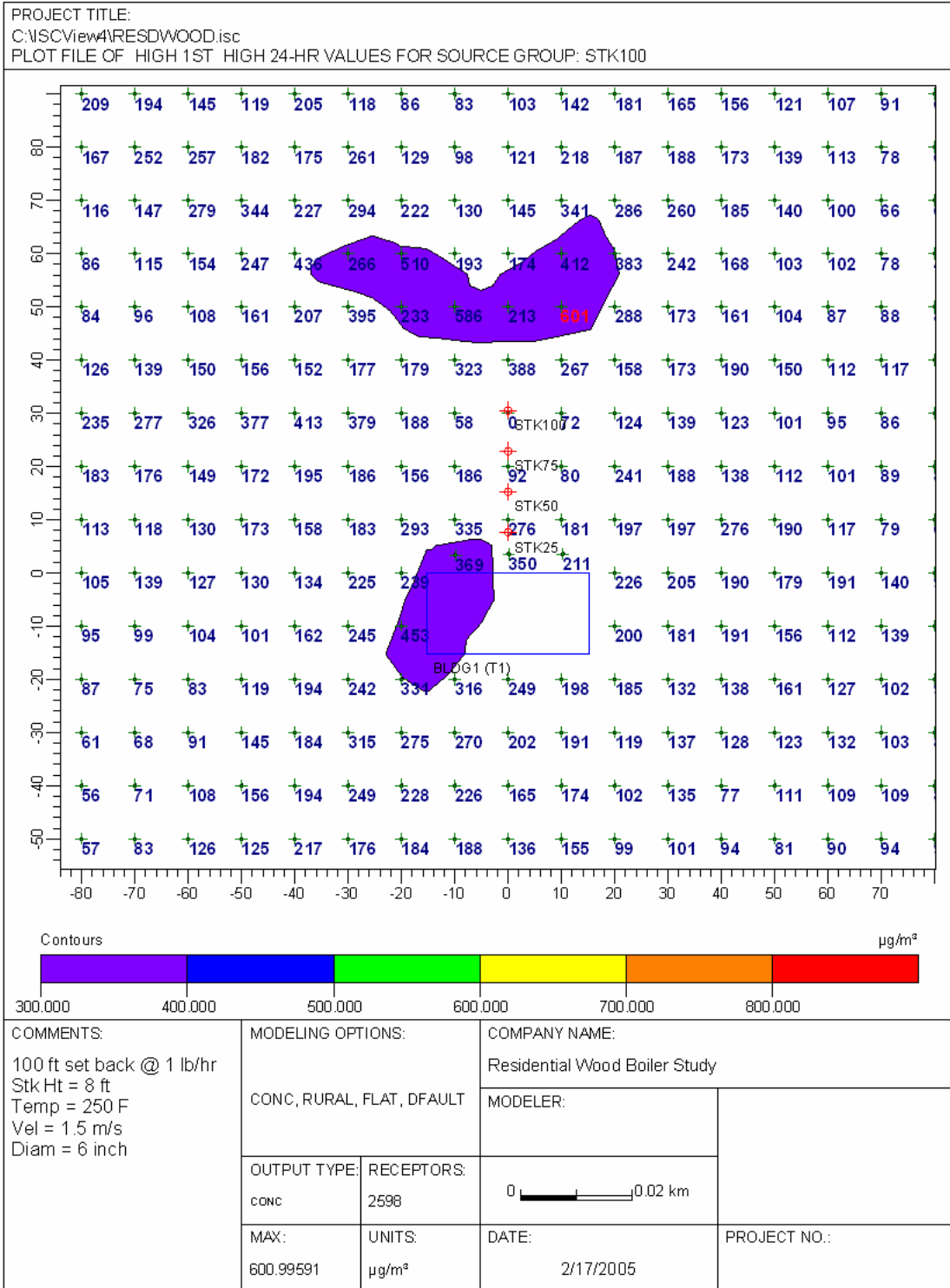
6/18/2004

PROJECT NO.:

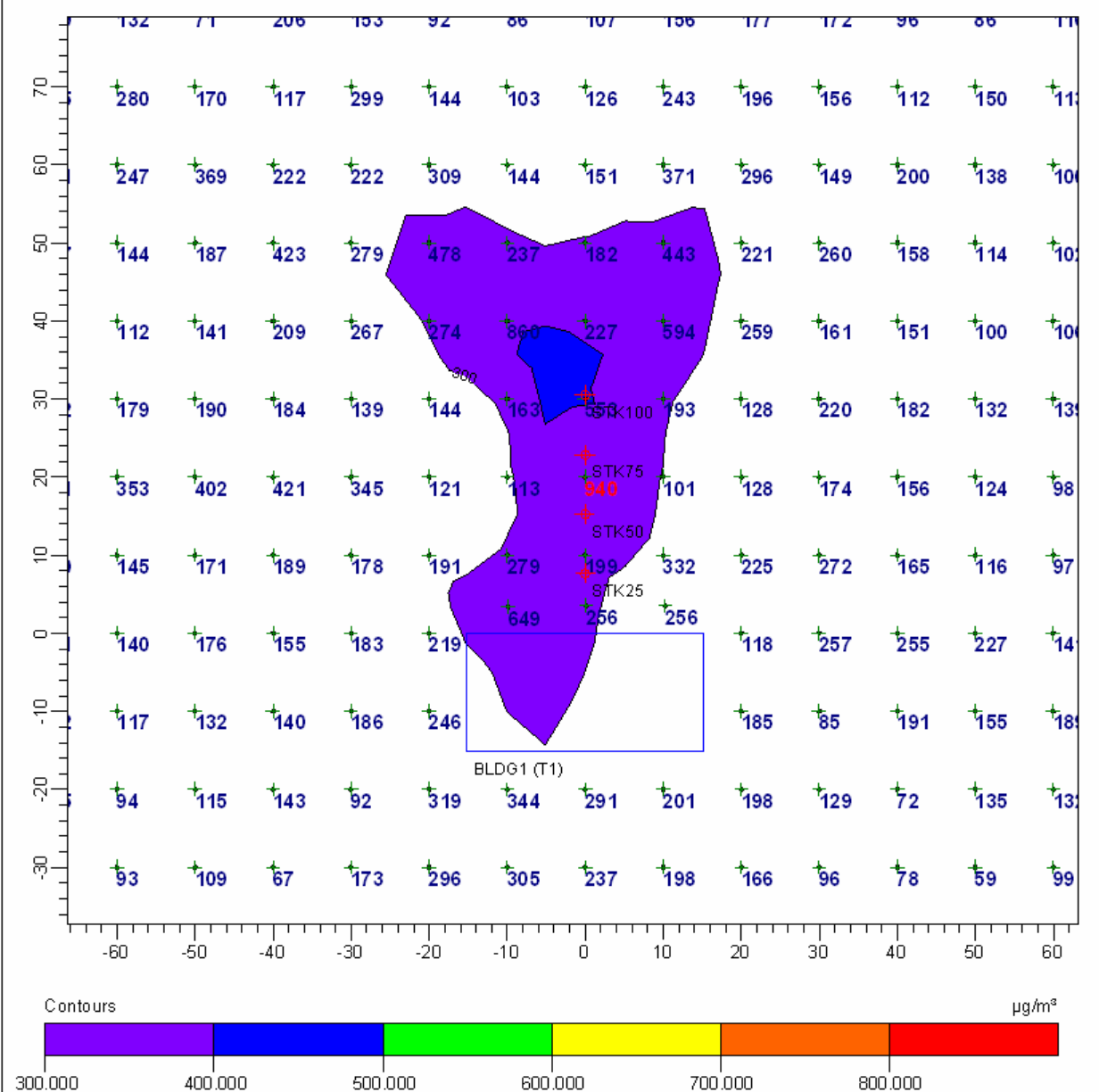
Residential Wood Boiler Study

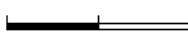
MAXIMUM PREDICTED 24-HR AVG CONCENTRATIONS

Note: Values listed near the receptor are the max 24-hr concentrations at that receptor 24-hr average maximum. contour plots with the same stack parameters and set back distance as was used before for the 1-hr's.

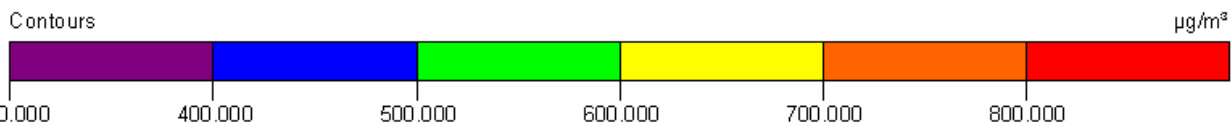
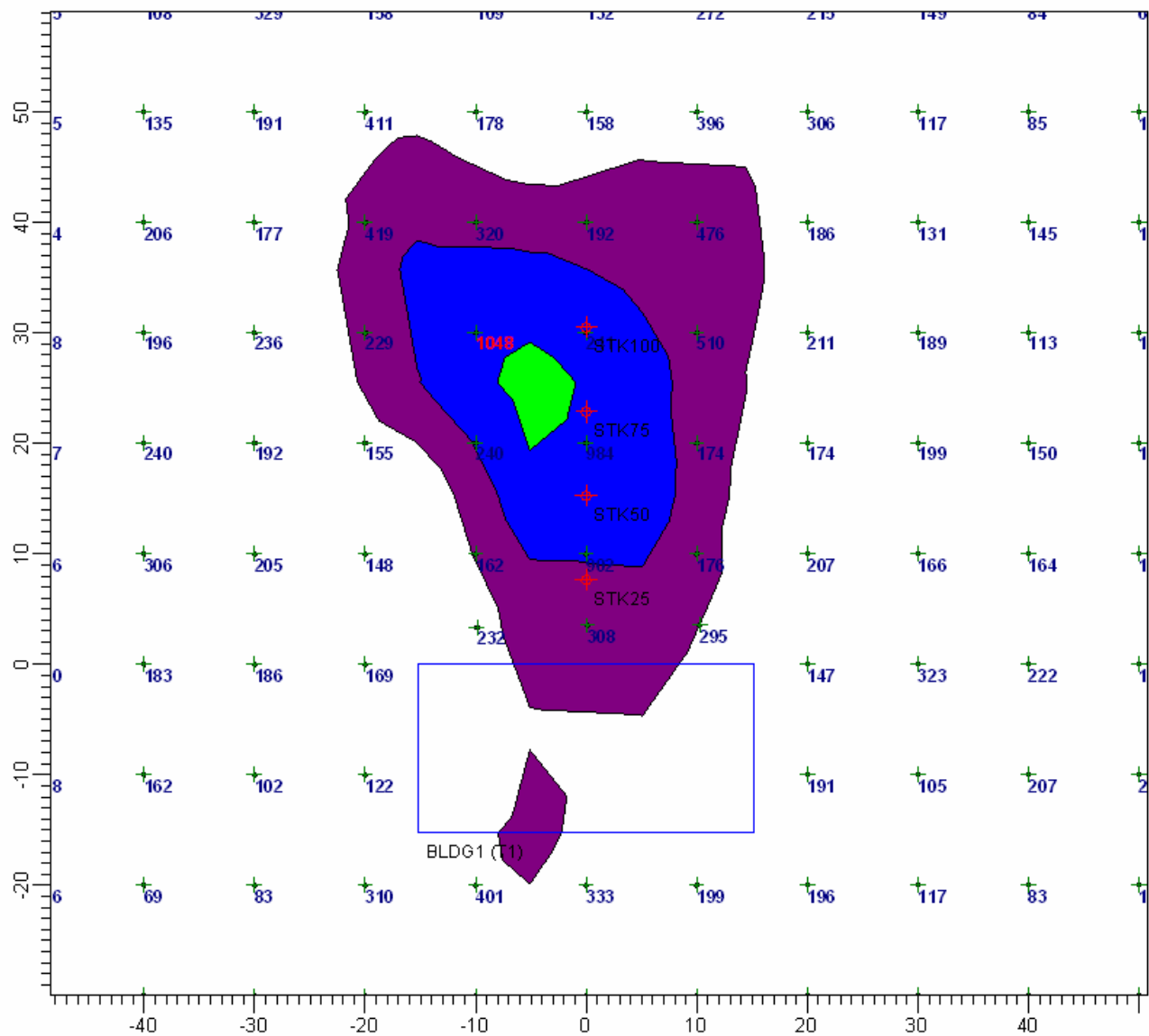


PROJECT TITLE:
C:\SCView4\RESWOOD.isc
PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: STK75



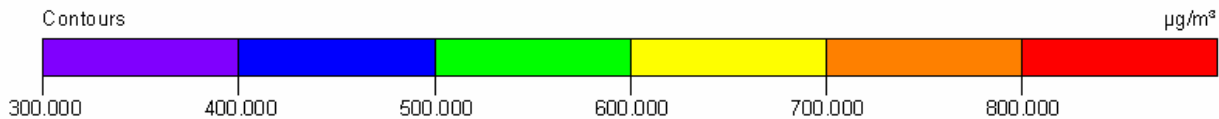
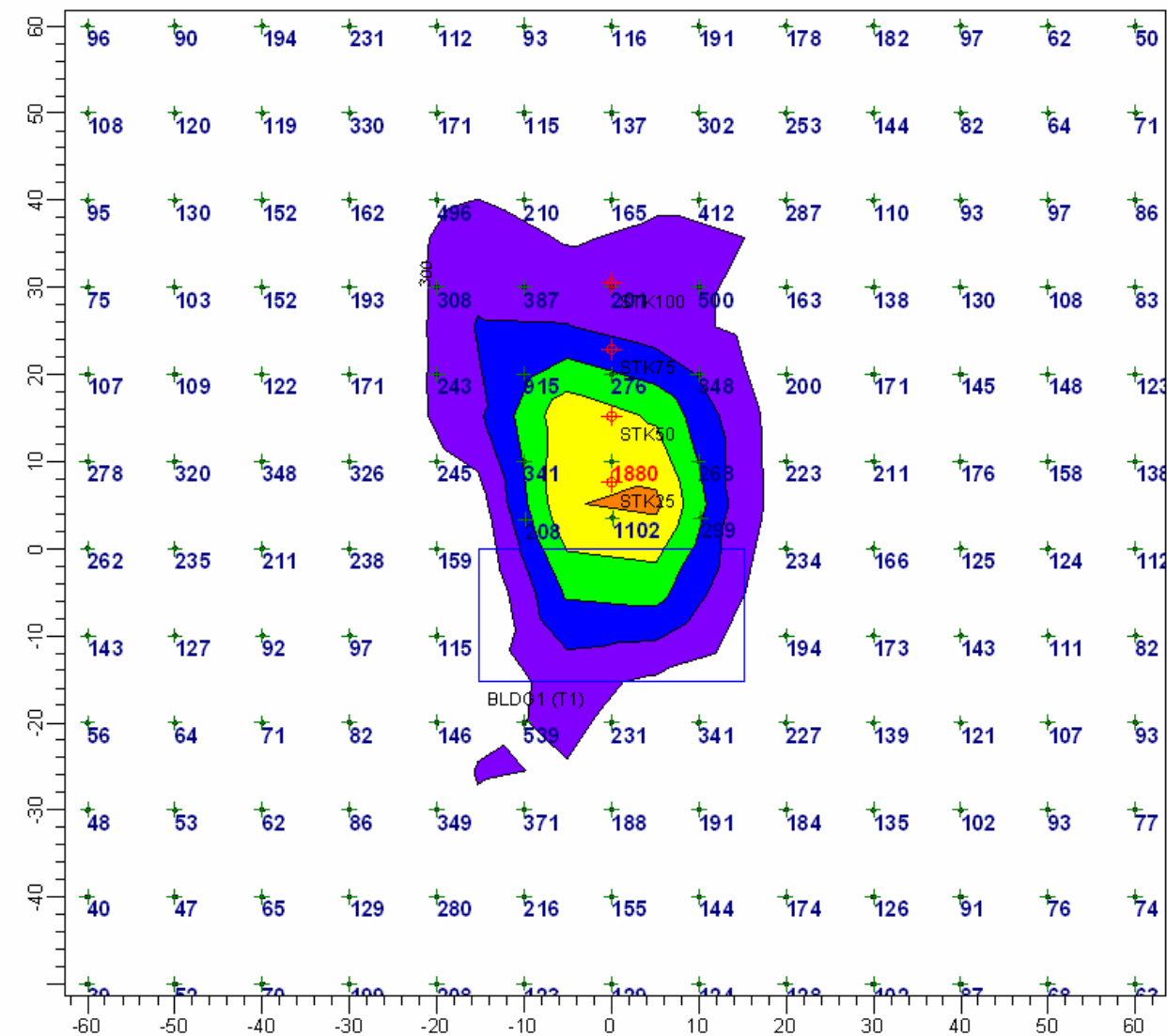
COMMENTS: 75 ft set back @ 1 lb/hr Stk Ht = 8 ft Temp = 250 F Vel = 1.5 m/s Diam = 6 inch	MODELING OPTIONS:		COMPANY NAME:	
	CONC, RURAL, FLAT, DFAULT		Residential Wood Boiler Study	
	OUTPUT TYPE:	RECEPTORS:	0  0.02 km	
	CONC	2598		
	MAX:	UNITS:	DATE:	PROJECT NO.:
	940.30103	$\mu\text{g}/\text{m}^3$	2/17/2005	


PROJECT TITLE:
C:\ISCView4\RESWOOD.isc
PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: STK50



<p>COMMENTS:</p> <p>50 ft set back @ 1 lb/hr Stk Ht = 8 ft Temp = 250 F Vel = 1.5 m/s Diam = 6 inch</p>	MODELING OPTIONS:		COMPANY NAME:	
	CONC, RURAL, FLAT, DFAULT		Residential Wood Boiler Study	
	OUTPUT TYPE:	RECEPTORS:		
	CONC	2598		
	MAX:	UNITS:	DATE:	PROJECT NO.:
	1047.51282	$\mu\text{g}/\text{m}^3$	2/17/2005	

PROJECT TITLE:
C:\SCView4\RESWOOD.isc
PLOT FILE OF HIGH 1ST HIGH 24-HR VALUES FOR SOURCE GROUP: STK25



COMMENTS: 25 ft set back @ 1 lb/hr Stk Ht = 8 ft Temp = 250 F Vel = 1.5 m/s Diam = 6 inch	MODELING OPTIONS:		COMPANY NAME:	
	CONC, RURAL, FLAT, DFAULT		Residential Wood Boiler Study	
			MODELER:	
	OUTPUT TYPE:	RECEPTORS:	0  0.02 km	
	CONC	2598		
MAX:	UNITS:	DATE:	PROJECT NO.:	
1879.875	µg/m³	2/17/2005		